BLUETOOTH® & WIFI THERMOMETERS

eti

2024

Specialists in the design & manufacture of temperature measuring equipment since 1983

Since our launch 41 years ago in 1983, Electronic Temperature Instruments Ltd (ETI) has developed a reputation as a British manufacturer and supplier of quality and value-for-money instrumentation.

PRODUCT GUARANTEE

All ETI manufactured instruments (those shown with the 'Made In Britain' logo, as above) carry a two-year guarantee against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of ETI, be either repaired or replaced without charge. Instruments that have not been manufactured by ETI will be subject to a guarantee period of 12 months. Such guarantees do not apply to sensors/probes, where a six-month period is offered. This six-month period also applies to a sensor/probe where it is an integral part of an instrument.

The product guarantee does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification, or use with non-ETI hardware/software. Further guarantee information can be obtained from our website.

Full details of liability are available on our website within ETI's terms and conditions of sale, at etiltd.com/terms. In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

QUALITY

ETI's Quality Management System is assessed to ISO 9001:2015 by the British Standards Institution. As part of our policy of continuous product development we reserve the right to change specifications at any time.

HOW TO ORDER

You can order via our secure website, alternatively contact our sales office who will be happy to assist.
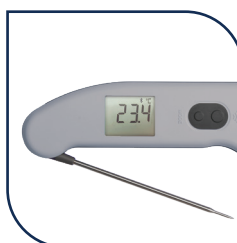
If you have previously ordered from us, please quote your customer account reference when placing an order. This can be found on your last delivery note or invoice.

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CONTENTS

All prices quoted within the catalogue are exclusive of carriage and VAT at the standard rate.

SOFTWARE DEVELOPMENT KITS

- Compatible with all ETI Bluetooth Products
- Technical support available
- No hidden costs or subscription charges

Software Developments Kits are available upon request for Android, e and Windows 10, making it easy to create apps that communicate with ETI's range of *Bluetooth*® thermometers, by handling all communications specifics (communication protocols, error handling) and presenting instrument functionality in terms of convenient programming objects.

SUPPORTED THERMOMETERS

Our latest SDK support the following Bluetooth LE thermometers:

- Thermapen® ONE Blue
- Thermapen® IR Blue
- BlueTherm® One LE
- Thermapen® Blue
- ThermaQ® Blue
- RayTemp® Blue
- TempTest® Blue
- DishTemp® Blue

Please note: Dot Matrix display features for Thermapen ONE Blue not available in SDK until late 2024. For this functionality please see the latest Bluetooth GATT specification - available upon request.

All thermometer functionality, which varies from thermometer to thermometer, is made available by the SDK. Please see individual product documentation for details:

PACKAGE CONTENTS

	Android	iOS	Windows
Library	.aar library	Universal static (.a) library	.dll library
Sample apps	Kotlin, Java	Objective-C, Swift	C#
API documentation	HTML	HTML	HTML

The packages are accompanied by a release note for the corresponding platform, detailing:

- How to incorporate the SDK into an app project
- Significant changes from previous releases

PREREQUISITES

	Android	iOS	Windows
OS version	Minimum SDK 21 (Lollipop)	Minimum iOS 11.0	Windows 10,.NET 4.7.2+
Sample apps	Kotlin, Java	Objective-C, Swift	C#
API reference	HTML	HTML	HTML
IDE for sample apps	Android Studio 3.6 or later	XCode 11 or later	Visual Studio

CONTACT

Any queries regarding this new SDK release, or any other software development enquires for ETI Ltd thermometers, should be emailed to technical@etiltd.co.uk

BLUETOOTH®

THERMAPEN® ONE BLUE THERMOMETER

- New intuitive display
- Waterproof to IP67
- Securely transmits data to your smart device
- SDK & technical integration support available

new

The new Thermapen ONE Blue combines the latest *Bluetooth*® wireless technology with the same high accuracy and precision as the Thermapen One. Simply connect to your host device (iOS or Android), probe the item to be measured and press the button to securely transmit your temperature data of up to 50 metres via a secure connection.

The casing is washable and includes Biomaster product protection that reduces bacterial growth. The Thermapen One Blue is waterproof to IP67.

The unit includes a Dot Matrix Display which when paired with a remote device, will show items on the screen alongside the temperature value. Each item can include a text line, high/low temperature limit that gives the user instant, on-screen pass/fail feedback. **Please Note:** New display features only available when using the latest Software Development Kit.

The Thermapen One Blue incorporates a reduced tip, stainless steel penetration probe (Ø3.3 x 110 mm) that conveniently folds back through 180° into the side of the instrument when not in use.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen One Blue.

BLUETOOTH®

Dot Matrix Display

New intuitive display showing item names, high and low limits and a visual PASS or FAIL indication.

AUTO OFF **IP67** **SDK AVAILABLE** **Biomaster PROTECTED** **2 YEAR GUARANTEE** **MADE IN BRITAIN**

Specification	Thermapen One Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C
Accuracy	±0.3 °C (-19.9 to 119.9 °C)
	±0.4 °C (-49.9 to 199.9 °C) otherwise ±1 °C
Bluetooth module	BLE 5.0
Battery	1 x 1.5 volt AAA
Battery life	500 hours (without backlight)
Sensor type	K thermocouple
Dimensions	19 x 50 x 157 mm
Weight	115 grams
FREE traceable certificate of calibration included	

Order code	Description	£ each
279-607	Thermapen One Blue - grey	175.00
830-701	Silicone boot with magnet - White	10.00
830-704	Silicone boot with magnet - Red	10.00
832-002	Stainless steel wall bracket	13.00

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMAPEN® IR BLUE THERMOMETER

- High accuracy - ideal for HACCP procedures
- Patented, automatic 360° rotational display
- Securely transmits data to your smart device
- SDK & technical integration support available

new

The new Thermapen IR Blue is two instruments in one compact unit. It combines the advanced technology of two ETI *Bluetooth®* products: the RayTemp Blue infrared thermometer and Thermapen Blue thermometer.

Housed in a robust ABS case containing Biomaster product protection that reduces bacterial growth. Simply connect to your host device (iOS or Android), probe or scan the item to be measured and press the button to securely transmit your temperature data via a secure connection of up to 50 metres.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen IR Blue.

- **Infrared thermometer**
  Simply aim the infrared thermometer at the target and press the scan button to display the surface temperature. **Please Note:** the infrared non-contact function will only measure when the probe is in the closed position.

  The Thermapen IR Blue thermometer incorporates a max/min temperature function accessed via the mode button (IR only). The distance to target ratio is 5:1, therefore the thermometer should be positioned as close to the target as possible. The default emissivity is 0.95 but can be adjusted via the host device.

- **Penetration probe**
  Opening the probe puts the instrument into probe mode, enabling you to take the core temperature of liquid and semi-solid foods using the fast response, stainless steel penetration probe (Ø3.3 x 110 mm). It will display the temperature in just 3 seconds. The probe conveniently folds back through 180° into the side of the instrument when not in use.

Patented auto-rotating display

Order code	Description	£ each
228-965	Thermapen IR Blue	190.00
830-480	Protective silicone boot	9.00
832-002	Stainless steel wall bracket	13.00
830-485	Silicone boot - glow in dark	11.50

MAX/MIN · AUTO OFF · 360° · SDK AVAILABLE · Biomaster · 2 YEAR GUARANTEE · MADE IN BRITAIN

Specification	Thermapen IR Blue
Range - infrared	-49.9 to 349.9 °C
Range - probe	-49.9 to 299.9 °C
Resolution	0.1 °C
Accuracy - infrared	±1 °C (0 to 100 °C) otherwise ±2 °C or ±2 % of reading whichever is greater
Accuracy - probe	±0.4 °C (-49.9 to 199.9 °C)
Bluetooth module	BLE 5.0
Field of view	Target ratio 5:1
Emissivity	0.95 default - adjustable via remote device
Battery	2 x 3 volt CR2032 lithium coin cell
Battery life	1000 hours - continuous use
Display	12 mm (horizontal) & 10 mm (vertical) LCD
Dimensions	19 x 50 x 157 mm
Weight	125 grams
FREE traceable certificate of calibration included (probe & IR)	

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

TEMPTEST® BLUE THERMOMETER

- Waterproof IP67, compact design
- Automatic 360° rotational display
- SDK & technical integration support available
- Securely transmits data to your smart device

The TempTest Blue combines *Bluetooth*® wireless technology with high accuracy, precision and fast response. Simply pair it with your device (iOS or Android), probe the item to be measured and press the button to transmit your temperature data. The TempTest Blue thermometer features a secure Bluetooth range of up to 50 metres.

The thermometer is housed in a waterproof IP67 case with an ergonomic rubber seal and includes Biomaster product protection to reduce bacterial growth. The unit incorporates a stainless steel food penetration probe (Ø3.3 x 80 mm) with fast response tip. The true temperature of a product can be measured in just three seconds.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the TempTest Blue.
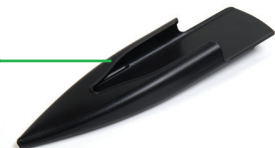
- **Protective silicone boot**
  Protect your instrument against accidental damage by fitting a protective silicone boot.

BLUETOOTH®

Example of app

Holster belt clip and wall bracket

Order code	Description	£ each
292-910	TempTest Blue	145.00
830-431	Protective silicone boot - white*	6.00
830-550	TempTest holster belt clip & wall bracket	4.50
*Various colours are available. Visit our website for details.		

Specification	TempTest Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C/°F
Accuracy	±0.4 °C (-49.9 to 199.9 °C)
	otherwise ±1 °C
Bluetooth module	BLE
Battery	2 x 1.5 volt AAA
Battery life	1000 hours - continuous use
Sensor type	K thermocouple
Display	11 mm LCD
Dimensions	17 x 47 x 200 mm (inc. probe)
Weight	105 grams
FREE traceable certificate of calibration included	

AUTO OFF | IP67 | 360° | SDK AVAILABLE | Biomaster PROTECTED | 2 YEAR GUARANTEE | MADE IN BRITAIN

Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMA K BLUE THERMOMETER

- Securely transmits data to your device
- Compact & robust design
- Interchangeable thermocouple probes
- SDK & technical integration support available

COMING SOON

Introducing the new Therma K Blue thermometer, designed and manufactured in the UK for release in 2024. This thermometer includes many benefits found in the Therma 1 model, but with the added convenience of *Bluetooth*® wireless technology.

Connecting to your host device (iOS or Android) is simple. Just probe the item you want to measure, press the button, and securely transmit your temperature data via a Bluetooth connection that works up to 50 metres away.

Housed in a durable ABS case, designed with Biomaster product protection to reduce bacterial growth. The large, easy-to-read, LCD display shows open circuit, low battery, and Bluetooth connection indicators. Powered by three AAA batteries that give a minimum of 3000 hours of battery life. If not connected, the instrument will power off automatically after ten minutes to maximise battery life. This feature can be disabled if needed through the software.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma K Blue.

BLUETOOTH®

Penetration probe (123-160)
For alternative probes visit our website.

- Stainless steel wall bracket & white silicone boot (832-050) screws not supplied.

Order code	Description	£ each
292-041	Therma K Blue	125.00
123-160	Penetration probe	31.50
832-050	Therma series s/s wall bracket & boot	17.00
830-221	Protective silicone boot - white*	8.00

Therma K Blue is exclusive of probe(s)
*Various colours are available. Visit our website for details.

Specification	Therma K Blue
Range	-199.9 to 1372 °C
Resolution	0.1 °C to 999.9 °C thereafter 1°C
Accuracy	±0.4 °C ±0.1%
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams

FREE traceable certificate of calibration included

AUTO OFF | SDK AVAILABLE | Biomaster PROTECTED | 2 YEAR GUARANTEE | MADE IN BRITAIN

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMA T BLUE THERMOMETER

- High accuracy ±0.2°C
- Interchangeable thermocouple probes
- SDK & technical integration support available
- FREE traceable certificate of calibration

COMING SOON

Introducing the new Therma T Blue thermometer, set to be released in 2024. Designed and manufactured in the UK, this thermometer boasts all the benefits of the Therma 1T model, with the added convenience of *Bluetooth*® wireless technology.

It is easy to connect the thermometer to your host device (iOS or Android) Simply probe the item you want to measure, press the button, and securely transmit your temperature data via a Bluetooth connection that works up to 50 metres away.

The Therma T Blue thermometer is built to last, with a durable ABS case and Biomaster product protection to reduce bacterial growth. The large, easy-to-read LCD display shows open circuit, low battery, and Bluetooth connection indicators. Powered by three AAA batteries, the unit offers 3000 hours of battery life. If not connected, the thermometer will automatically power off after ten minutes to maximise battery life. This feature can be disabled if needed through the software.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma T Blue.
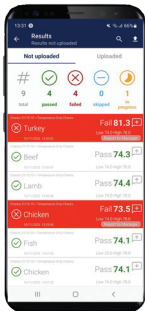
BLUETOOTH®

Fast response probe (127-159)
For alternative probes
visit our website for details.

- Protective silicone boot
Protect your instrument from accidental damage. Various colours are available - visit our website for details.

Example of app

Order code	Description	£ each
292-107	Therma T Blue	125.00
127-159	Fast response probe	34.50
832-050	Therma series s/s wall bracket & boot	17.00
830-221	Protective silicone boot - white*	8.00

Therma T Blue is exclusive of probe(s)
*Various colours are available. Visit our website for details.

Specification	Therma T Blue
Range	-199.9 to 400 °C
Resolution	0.1 °C
Accuracy	±0.2°C ±0.1%
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams

FREE traceable certificate of calibration included

AUTO OFF | SDK AVAILABLE | Biomaster PROTECTED | 2 YEAR GUARANTEE | MADE IN BRITAIN

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMA 20 BLUE THERMOMETER

- Securely transmits data to your device
- Meets the European Standard EN 13485
- Optional test caps for accuracy checks
- SDK & technical integration support available

COMING SOON

Designed and manufactured in the UK, the new Therma 20 Blue thermometer incorporates *Bluetooth®* wireless technology in addition to the standard benefits of the Therma 20. To use, simply connect the thermometer to your host device (iOS or Android), probe the item to be measured, and press the button to securely transmit your temperature data via a secure Bluetooth connection that can reach up to 50 metres.

Housed in a robust ABS case that contains Biomaster product protection, which helps reduce bacterial growth. The unit comes with an easy-to-use Lumberg screw-locking connector that allows the use of a wide range of interchangeable thermistor probes and self-calibration test caps to perform accuracy checks.

The Therma 20 Blue features a large, easy-to-read, LCD display that shows open circuit, low battery, and Bluetooth connection indication. Powered by three AAA batteries that provide 3000 hours of battery life. When not connected, the instrument will power off automatically after a few minutes, maximising battery life. This feature can be disabled via the software if it is not required.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma 20 Blue.

Thermistor penetration probe (174-166)
For alternative probes visit our website

- **Protective silicone boot**
  Protect your instrument from accidental damage.
  Various colours are available - visit our website for details.

- **Thermistor test caps**
  For checking the accuracy of your thermometer

Order code	Description	£ each
292-040	Therma 20 Blue	125.00
174-166	Thermistor penetration probe	34.00
286-001	Thermistor test cap -18 °C	40.00
286-002	Thermistor test cap 0 °C	40.00
286-003	Thermistor test cap 3 °C	40.00
286-004	Thermistor test cap 70 °C	40.00
286-005	Thermistor test cap 100 °C	40.00
832-050	S/steel wall bracket & boot	17.00
830-221	Protective silicone boot - white*	8.00

Therma 20 Blue is exclusive of probe(s)
***Various colours are available. Visit website for details.**

Specification	Therma 20 Blue
Range	-39.9 to 149.9 °C
Resolution	0.1 °C
Instrument only accuracy	±0.2 °C
System accuracy - Thermistor	±0.4 °C (-24.9 to 109.9 °C)
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams

FREE traceable certificate of calibration included

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMA 22 BLUE THERMOMETER

- Utilises both type T thermocouple & thermistor probes
- SDK & technical integration support available
- Optional test caps for accuracy checks
- Fast response with high accuracy

COMING SOON

The new Therma 22 Blue thermometer is designed and manufactured in the UK, and it comes with *Bluetooth®* wireless technology along with the standard benefits of the Therma 22 thermometer. To use it, you simply need to connect the thermometer to your host device (iOS or Android), insert the probe into the item to be measured, and press the button to transmit your temperature data securely via Bluetooth. The connection can reach up to 50 metres.

It is housed in a strong ABS case that contains Biomaster product protection, which helps reduce bacterial growth. Additionally, the unit includes an easy-to-use Lumberg screw-locking connector that allows for the use of a wide range of interchangeable thermistor probes and self-calibration test caps for accuracy checks.

The Therma 22 Blue is specifically designed for those who need the versatility of both thermocouple and thermistor probes in one compact unit. The thermistor sensor provides greater accuracy for food processing, while the type T thermocouple sensor extends the measurement range and provides faster response.

The Thermometer features a large, easy-to-read, LCD display that shows open circuit, low battery, and Bluetooth connection indication. Powered by three AAA batteries that provide 3000 hours of battery life. When not connected, the instrument will power off automatically after a few minutes, maximising battery life. This feature can be disabled via the software if it is not required.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Therma 22 Blue.

Type T penetration probe (177-166)
For alternative probes visit our website for details.

- Protective silicone boot
Various colours are available. visit our website for details.

Example of app

Order code	Description	£ each
292-022	Therma 22 Blue	135.00
177-166	Type T penetration probe	35.50
832-050	S/steel wall bracket & boot	17.00
830-221	Protective silicone boot - white*	8.00

Therma 22 Blue is exclusive of probe(s)
***Various colours are available. Visit website for details.**

Specification	Therma 22 Blue
Range - Thermistor	-39.9 to 149.9 °C
Range - Type T t/c	-199.9 to 400 °C
Resolution - Thermistor	0.1 °C
Resolution - Type T t/c	0.1 °C to 300 °C thereafter 1 °C
Instrument only accuracy	±0.2 °C
System accuracy - Thermistor	±0.4 °C (-24.9 to 109.9 °C)
System accuracy - Type T t/c	±0.5 °C (-49.9 to 149.9 °C)
Bluetooth module	BLE 5.0
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	130 grams

FREE traceable certificate of calibration included

AUTO OFF | SDK AVAILABLE | Biomaster PROTECTED | 2 YEAR GUARANTEE | MADE IN BRITAIN

Please note: BLE 5.0 thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

THERMAPEN® BLUE THERMOMETER

- Reaches temperature in just 3 seconds
- Securely transmits data to your smart device
- Helps your business to be HACCP compliant
- Colour-coded ID for different applications

The Thermapen Blue combines *Bluetooth® wireless technology* with the same high accuracy, precision and speed as the Thermapen. Simply connect to your host device (iOS or Android), probe the item to be measured and press the button to securely transmit your temperature data via a secure connection of up to 50 metres.

The casing is washable and includes Biomaster product protection that reduces bacterial growth and the ergonomic rubber seal minimises the risk of the ingress of water, dust or food. The Thermapen Blue is waterproof to IP66/67. The true temperature of a product can be tested in just three seconds.

The Thermapen Blue incorporates a reduced tip, stainless steel, penetration probe (Ø3.3 x 110 mm) that conveniently folds back through 180° into the side of the instrument when not in use.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the Thermapen Blue.

Example of app

Colour-coded

Order code	Description	£ each
179-607	Thermapen Blue - grey	145.00
179-647	Thermapen Blue - red	145.00
179-657	Thermapen Blue - blue	145.00
830-620	Silicone boot - glow in dark/magnets	10.50
832-002	Stainless steel wall bracket	13.00

AUTO OFF | IP66/IP67 | SDK AVAILABLE | Biomaster PROTECTED | 2 YEAR GUARANTEE | MADE IN BRITAIN

Specification	Thermapen Blue
Range	-49.9 to 299.9 °C
Resolution	0.1 °C via remote device
Accuracy	±0.4 °C (-49.9 to 199.9 °C)
	otherwise ±1 °C
Bluetooth module	BLE
Battery	1 x 1.5 volt AAA
Battery life	1000 hours - continuous use
Sensor type	K thermocouple
Dimensions	19 x 50 x 157 mm
Weight	112 grams
FREE traceable certificate of calibration included	

Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

RAYTEMP® BLUE THERMOMETER

- Securely transmits data to your device
- Target distance/diameter ratio 5:1
- Time saving, paperless recordings
- FREE traceable certificate of calibration

Designed and manufactured in the UK, The RayTemp Blue infrared non-contact thermometer incorporates many of the features of the RayTemp 2, but with *Bluetooth®* wireless technology.

Simply connect to your host device (iOS or Android), press and hold the measure button and aim the thermometer at the target to display the surface temperature and securely transmit the data via a secure connection of up to 50 metres.

The unit incorporates a 5:1 optic ratio (target distance/diameter ratio) and therefore the thermometer should be positioned as close to the target as possible. The default emissivity is 0.95 but can be changed from 0.1 to 1, if required. The unit does not incorporate laser alignment, which will encourage users to get closer to the object being measured thus reducing inaccurate readings.

The RayTemp Blue features a two button keypad, incorporating measure and on/off function, and an auto-power-off facility that automatically turns the instrument off after 10 minutes, maximising battery life. Each unit is housed in a robust ABS case that contains Biomaster product protection which reduces bacterial growth.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom apps to communicate with the RayTemp Blue.

OPTIONAL ACCESSORIES:

- Protective silicone boot.
  Various colours are available - visit our website.
- Stainless steel wall bracket (832-050)
  & white silicone boot (screws not supplied)

Order code	Description	£ each
228-920	RayTemp Blue	145.00
832-050	Therma series s/s wall bracket & boot	17.00
830-221	Protective silicone boot - white*	8.00
814-132	Comparator	46.00
*Various colours are available. Visit our website for details.		

Specification	RayTemp Blue
Range	-49.9 to 349.9 °C
Resolution	0.1 °C/°F
Accuracy	±1 °C (0 to 100 °C) otherwise ±2 °C or
	±2 % of reading whichever is greater
Field of view	Target ratio 5:1
Bluetooth module	BLE
Emissivity	0.95 default - adjustable 0.1 to 1
Battery & life	3 x 1.5 volt AAA - 3000 hours
Display	12 mm LCD
Dimensions	25 x 56 x 128 mm
Weight	140 grams
FREE traceable certificate of calibration included	

Please note: BLE thermometers have a range of 50 metres depending on the user's smart device make and model. Environmental conditions may also affect the signal strength.

BLUETHERM® ONE THERMOMETER

- Interchangeable thermocouple probes
- Fast & Accurate HACCP checks
- Water resistant to IP65
- SDK & technical support available

The BlueTherm One thermometer transmits temperature data to your iOS, Android or *Bluetooth*® wireless device via a secure connection of up to 50 metres. This thermometer is specifically designed to eliminate the need for wires which often cause many traditional probes to break or fail.

Each unit is housed in an ergonomic case that incorporates a large LCD and a single LED which indicates Bluetooth connection status. A wide range of type K thermocouple probes can be connected to the unit, see below for a small selection or visit our website for a complete range.

A Software Development Kit (SDK) is available upon request to allow integrators to write custom Apps to communicate with the BlueTherm One.

Example of App

Fast response penetration probe (133-153)

Order code	Description	£ each
292-911	BlueTherm One	130.00
133-153	Fast Response Penetration probe	22.00
830-210	Protective silicone boot - white*	8.00

The BlueTherm One is exclusive of probe.
***See opposite and visit our website for more details.**

Specification	BlueTherm One
Range	-199.9 to 1372 °C
Resolution	0.1 °C/°F to 999.9 thereafter 1 °C/°F
Accuracy	±0.4 °C ±0.1 % of reading
Bluetooth module	BLE
Battery & life	1 x 1.5 volt AA - 3000 hours
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	34 x 66 x 109 mm
Weight	165 grams

FREE traceable certificate of calibration included

BLUETOOTH®

		Order code	£ each
FAST RESPONSE PENETRATION PROBE	This reduced tip (Ø1.8 x 25 mm) fast response, stainless steel penetration probe is versatile and ideal for liquids or semi-solids. • Response time less than 2 seconds • Probe temperature range -75 to 250 °C	133-153 (120 mm)	22.00
Ø3.3 x 80 or 120 mm		133-154 (80 mm)	22.00
AIR OR GAS PROBE Ø3.3 x 120 mm	This probe has a perforated stainless steel tip for fast response. Ideal for chill cabinets, fridges, freezers and HVAC units. • Response time less than 1 second • Probe temperature range -75 to 250 °C	133-301	19.00
SURFACE PROBE Ø8 x 120 mm	This stainless steel surface probe uses flat ribbon technology ensuring a fast, accurate response with minimal heat loss. A right-angled version is also available. • Response time less than 1 second • Probe temperature range 75 to 250 °C	133-045	23.50
		133-046 (right-angled)	24.50

Please note: Bluetooth LE thermometers have a range of 50 metres depending on the users smart device make and model. Environmental conditions may also affect the signal strength.

THERMAQ® BLUE THERMOMETER

- Two channel type K input - dual monitoring
- FREE ThermaQ® App for iOS & Android
- Log & graph temperature changes
- Programmable high/low alarms

The ThermaQ Blue thermometer is designed to monitor temperatures remotely. Transmitting temperature data to your iOS, Android or *Bluetooth*® wireless device via a secure connection of up to 50 metres.

Each unit is housed in a water resistant, ergonomic case and incorporates a backlit LCD and 2 LED's which indicate alarm status over the entire range of -199.9 to 1372 °C. For ThermaQ Blue probes, see below for a small selection or visit our website for a complete range.

Available as a FREE download, the 'ThermaQ App' software reads two temperatures and provides simple-to-set high and low alarms. The 'ThermaQ App' can export saved data for further analysis as an Excel (.csv) file. A Software Developer Kit (SDK) is available upon request to allow integrators to write custom Apps to communicate with the ThermaQ Blue.

Crocodile clip oven probe (133-041)

Protective silicone boot

Order code	Description	£ each
292-921	ThermaQ Blue	135.00
133-041	Crocodile clip oven probe	30.00
830-210	Protective silicone boot - white	8.00
The ThermaQ Blue is exclusive of probes		
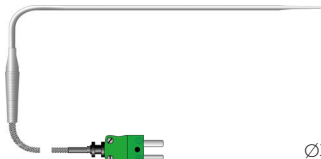
Specification	ThermaQ Blue
Range	-199.9 to 1372 °C
Resolution	0.1 °C/°F to 999.9 thereafter 1 °C
Accuracy	±0.4 °C ±0.1 % of reading
Bluetooth module	BLE
Battery & life	1 x AA - 4000 hours
Sensor type	K thermocouple
Display	12 mm LCD
Dimensions	34 x 66 x 109 mm
Weight	172 grams
FREE traceable certificate of calibration included	

		Order code	£ each
Q SERIES AIR PROBE & CLIP	This oven/air probe is ideal for monitoring air temperatures. Using the grate clip provided, attach the probe to an oven rack/shelf. Supplied with a 1.2 metre stainless steel braided PTFE lead.	133-645	38.00
grate clip → Ø3.5 x 50 mm	• Response time less than 4 seconds • Probe temperature range -50 to 250 °C	830-530 (spare clip)	2.80
Q SERIES SMOKEHOUSE COOKING PROBE	This right angled stainless steel penetration probe is ideal for continuous monitoring during cooking processes. Supplied with a 1.2 metre stainless steel braided PTFE lead .	133-605	43.00
Ø3.5 x 172 mm	• Response time less than 4 seconds • Probe temperature range -50 to 250 °C		
Q SERIES PENETRATION PROBES	These stainless steel penetration probes are ideal for continuous monitoring in ovens. Supplied th a 1.2 metre stainless steel braided PTFE lead.	133-635 (60 mm)	44.00
		133-615 (115 mm)	42.00
Ø3.5 x 60, 115 or 305 mm	• Response time less than 4 seconds • Probe temperature range -50 to 250 °C	133-625 (305 mm)	43.00

For high temperature Q Series probes rated to +350 °C, replace the last digit (5) of the order code with the number 0

Please note: Bluetooth LE thermometers have a range of 50 metres depending on the users smart device make and model. Environmental conditions may also affect the signal strength.

DISHTEMP® BLUE DISHWASHER THERMOMETER

- Simulates maximum plate surface temperatures
- Waterproof to IP66
- HACCP compatible
- FREE traceable certificate of calibration

The DishTemp Blue Dishwasher Thermometer transmits temperature data to your iOS, Android or Bluetooth wireless device via a secure connection of up to 6 metres.

Specifically designed to save time, paper and eliminate human error when recording temperature cycles. The DishTemp Blue simulates a plate as it's cleaned and sanitised in a commercial dishwasher, accurately recording the maximum surface temperature at the touch of a single button, eliminating the need for costly and inaccurate test strips and stem thermometers that do not stay in place or record the surface temperature of a plate.

Built to survive daily use in professional kitchens, the DishTemp Blue dishwasher thermometer indicates temperature over the range of 0 to 90 °C with a resolution of 0.1 °C/°F and an accuracy of ±0.5 °C.

Incorporating a durable water-tight seal, the DishTemp Blue is supplied complete with a FREE 1-point traceable certificate of calibration.

Stainless steel wall bracket (832-280)

Order code	Description	£ each
810-289	DishTemp Blue thermometer	70.00
832-280	Stainless steel wall bracket	13.00

Specification	DishTemp Blue
Range	0 to 90 °C
Resolution	0.1 °C/°F
Accuracy	±0.5 °C
Bluetooth module	BLE
Battery	3 volt CR2032 lithium coin cell
Battery life	40 hours
Display	Custom LCD
Dimensions	14 x Ø127 mm
Weight	120 grams
FREE traceable certificate of calibration included	

Please note: Bluetooth LE thermometers have a range of 50 metres depending on the users smart device make and model. Environmental conditions may also affect the signal strength.

THERMADATA® WIFI LOGGERS FOR TEMPERATURE

- Email alerts user when alarm limits are exceeded
- Access recorded data worldwide via internet
- FREE software with NO ongoing or subscription charges
- Programmable high/low alarms

The ThermaData WiFi loggers utilise the latest WiFi wireless technology. The loggers are a battery powered, cost-effective, temperature monitoring system that remotely records the temperature of appliances and buildings. Each logger transmits the recorded data to a WiFi router connected to the internet which can be accessed and viewed from a PC, laptop or tablet anywhere in the world.

The loggers have a range limited to the specification of the users WiFi router. Each logger has an intuitive LCD displaying; temperature, WiFi and internet connection status, max/min recorded temperatures, alarm status and battery life.

At programmable intervals, the loggers will record temperature from both sensors, recording up to a maximum of 18000 readings (9000 from each sensor). Each logger incorporates a red and green LED. The flashing green LED indicates that the logger is active/logging and the flashing red LED indicates that the customised preset alarms have been exceeded. Each logger communicates directly to the WiFi router at set intervals to push data through the internet into ThermaData Studio. The information is available to be analysed and exported into a report format. Each unit is supplied with a USB lead and FREE wall bracket. ThermaData Studio software is available to download FREE from our website and is licence free, with no ongoing or subscription charges.

HOW DOES THE THERMADATA WIFI LOGGER WORK?

Using the unique ID of each logger, ThermaData Studio creates a secure connection between logger and software, which can be accessed and viewed anytime and anywhere with an internet connection. Each logger communicates directly to the WiFi router at set intervals to push data through the internet into ThermaData Studio. The information is available to be analysed and exported into a report format.

Simple setup & easy-to-use software makes the ThermaData WiFi loggers perfect for HACCP analysis

Data sent via WiFi to router

View data on multiple devices

Email Alerts
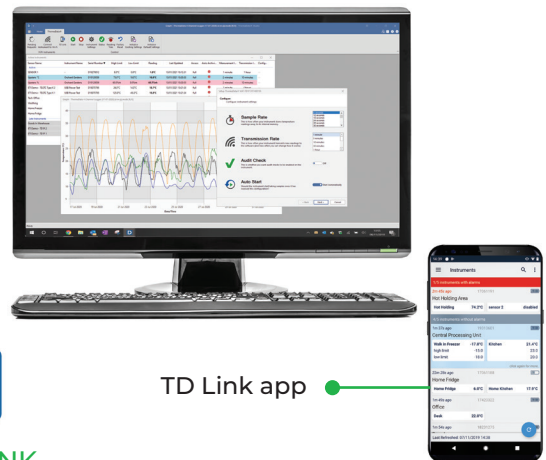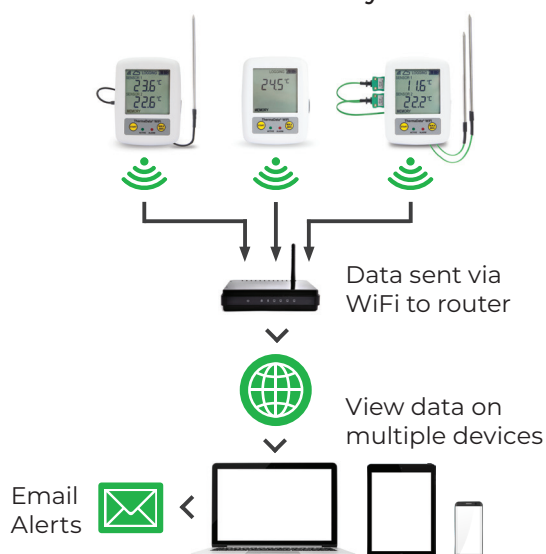
TD Link app

TD LINK

By signing in to the TD Link app, you can view the status of all the ThermaData wireless thermometer units associated with ThermaData Studio, wherever the internet is available.

You can view the current readings, settings and reference information of all your thermometers. Warning indicators will appear if there is a problem with any instrument, or if any sensor reading has reached the alarm levels set in ThermaData Studio.

For each thermometer, you can opt to receive push notifications when an alarm condition has been detected.

TD Link is a view-only app, that cannot be used to alter instrument settings. Available on iOS and Android.

Please note: WiFi routers have a range of 100 metres depending on the make, model, capabilities and setup of the router. Environmental conditions may also affect the signal strength.

WIFI

THERMADATA® WIFI ONE/TWO CHANNEL THERMISTOR LOGGERS

The ThermaData WiFi thermistor loggers can be supplied with one internal sensor or a stainless steel general purpose probe (Ø3.3 x 100 mm) with a one metre PUR/PVC fixed lead. **Please Note:** Model TD1F is supplied with one external remote probe and an internal sensor. Model TD2F is supplied with two external remote probes.

Specification	TD	TD1F	TD2F
Range - internal	0 to 50 °C	0 to 50 °C	N/A
Range - external	N/A	-40 to 125 °C	-40 to 125 °C
Resolution	0.1 °C/°F		
Accuracy	±0.5 °C		
Memory	18000 readings	2 x 9000 readings	
Sample rate	6 seconds to 330 minutes		
Battery & life	2 x 1.5 volt AA - approximately 1 year		
Display	12 mm LCD/2 LED's		
Dimensions	29 x 72.5 x 96 mm		
Weight	165 grams model dependant		
FREE traceable certificate of calibration included			

Order code	Description	£ each
298-001	Model TD	95.00
298-011	Model TD1F*	105.00
298-111	Model TD2F*	125.00
*Inclusive of thermistor probe(s)		
832-590 ABS wall bracket also included (see website)		

THERMADATA® WIFI TWO CHANNEL THERMOCOUPLE LOGGERS

The ThermaData WiFi thermocouple loggers are available in two sensor types, type K and type T thermocouple. **Please Note:** Each logger is supplied exclusive of probes, see below for a small selection of probes available or for alternative designs visit our website.

General purpose probes (133-158)

Specification	ThermaData WiFi - Thermocouple
Range - type K	-100 to 1372 °C
Range - type T	-100 to 400 °C
Resolution	0.1 °C/°F to 999.9 thereafter 1 °C/°F
Accuracy	±0.4 °C ±0.1 % of reading
Memory	2 x 9000 readings
Sample rate	6 seconds to 330 minutes
Battery & life	2 x 1.5 volt AA - approximately 1 year
Display	12 mm LCD/2 LED's
Dimensions	29 x 72.5 x 96 mm
Weight	165 grams
FREE traceable certificate of calibration included	

Order code	Description	£ each
298-121	Model TD2TC - type K	120.00
298-721	Model TD2TC - type T	120.00
830-800	Magnetic mount	9.00
830-880	Protective boot - black	14.00
Exclusive of thermocouple probes		

		Order code	£ each
GENERAL PURPOSE PROBE	This stainless steel probe is suitable for a wide range of applications. Supplied with a one metre PTFE insulated lead and connector. ● Response time less than 5 seconds ● Probe temperature range -75 to 250 °C	133-158 (1000 mm)	24.00
Ø3.3 x 100 mm		133-220 (3000 mm)	28.00
		133-222 (5000 mm)	32.00
FOOD SIMULANT PROBE	This polypropylene simulant probe is designed for use in refrigeration, food storage and chill cabinets. Supplied with a one metre PTFE insulated lead and connector. ● Probe temperature range -20 to 100 °C	133-350 (1000 mm)	32.00
9 x 100 x 100 mm		133-352 (3000 mm)	37.00
		133-354 (5000 mm)	42.00
HEAVY-DUTY PTFE WIRE PROBE	This heavy-duty, PTFE insulated wire probe is ideal for measuring the air temperature in fridges, freezers, ovens etc. ● Response time less than 1 second ● Probe temperature range 75 to 250 °C	133-372 (1000 mm)	14.50
Ø2.4 x 1000 or 2000 mm		133-373 (2000 mm)	16.50

Please note: for type T thermocouple probes, replace the third digit (3) of the order code with the number 7

WIFI

THERMADATA® WIFI LOGGER FOR HUMIDITY

- FREE software with NO ongoing or subscription charges
- Simultaneously displays humidity & temperature
- Access recorded data worldwide via internet
- Programmable high/low alarms

These ThermaData WiFi humidity loggers measure and record both temperature and relative humidity (%rh) over the range of 0 to 50 °C and 0 to 100 %rh. At programmable intervals, the loggers will record simultaneously both temperature and humidity, recording up to a maximum of 18000 readings (9000 humidity and 9000 temperature).

The logger incorporates a large LCD that displays temperature and humidity from the internal sensors. Each ThermaData WiFi humidity logger incorporates two LED's, a flashing green LED indicates that the logger is active/logging and a flashing red LED indicates that your customised preset alarms have been exceeded.

The humidity and temperature ThermaData WiFi loggers are suitable for a diverse range of applications which include HVAC climate monitoring, QA monitoring of storage areas etc.

THERMADATA STUDIO SOFTWARE

Both powerful and sophisticated, yet user-friendly, the ThermaData Studio software enables temperature and humidity data to be organised and analysed to provide management information.

The ThermaData Studio software has the ability to display up to 32 traces on a graph, the trace colours are user selectable. All files can be viewed as thumbnail icons for easy identification.

The software allows the user to programme the logging sample/interval rate (6 seconds to 330 minutes), communication interval (sync) with PC, real-time clock, °C or °F and a manual start option. It is also possible to include a user ID for each logger.

Order code	Description	£ each
298-621	ThermaData WiFi HTD	145.00
830-880	Protective silicone boot - black	14.00
830-800	Magnetic mount	9.00
890-111	UKAS 3-point certificate available	85.00*
*when purchased with a new Logger		

HOW DOES THE THERMADATA WIFI HTD LOGGER WORK?

Data sent via WiFi to router

View data on multiple devices

Email Alerts
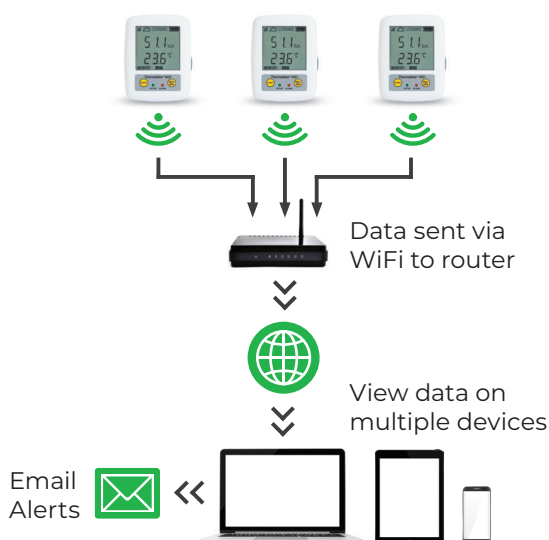
- TD Link available on iOS and Android for mobile phone push notifications

Specification	Temperature	Humidity
Range	0 to 50 °C	0 to 100 %rh
Resolution	0.1 °C/°F	0.1 %rh
Accuracy	±0.5 °C (0 to 50 °C)	±3 %rh @ 25 °C (10 to 90 %rh)
		±4 %rh @ 25 °C (0 to 100 %rh)
Hysteresis	N/A	±1 %rh
Sensor type	Thermistor	Capacitance polymer
Memory	2 x 9000 readings	
Sample rate	6 seconds to 330 minutes	
Battery & life	2 x 1.5 volt AA - approx. 10 months @ 20 °C	
Display	12 mm LCD/2 LED's	
Dimensions	29 x 72.5 x 96 mm	
Weight	165 grams	
Optional UKAS Certificate of Calibration available		

WIFI

THERMADATA® PHARM WIFI LOGGERS

- External sensor(s) designed to simulate fridge contents temperature
- FREE software with NO ongoing or subscription charges
- Access recorded data worldwide via internet
- Programmable high/low alarms

The ThermaData Pharm WiFi loggers are a battery powered, cost-effective, temperature monitoring system that remotely records storage and transportation temperatures of perishable items such as food, vaccines and medication.

Each logger has an intuitive LCD displaying; temperature, WiFi connection status, max/min recorded temperatures, alarm status and battery life. Simple to set up, the logger once up and running will transmit recorded data to a WiFi router connected to the internet which can then be accessed and viewed from a PC, laptop or tablet anywhere in the world.

At programmable intervals, the loggers will record temperature from both sensors, recording up to a maximum of 18000 readings (9000 from each sensor). Each logger incorporates a red and green LED. The flashing green LED indicates that the logger is active/logging and the flashing red LED indicates that the customised preset alarms have been exceeded. Each logger communicates directly to the WiFi router at set intervals to push data through the internet into ThermaData Studio. The information is available to be analysed and exported into a report format. Each unit is supplied with a USB lead and free wall bracket ThermaData Studio software is available to download FREE from our website and is licence free, no ongoing or subscription charges.

Each thermistor probe is encased in a sealed bottle and incorporates a two metre PUR/PVC fixed lead. To begin monitoring, simply unscrew and top up with Glycol solution (50 ml bottle supplied).
Please Note: Model TD1F Pharm is supplied with one external remote probe and an internal sensor. Model TD2F is supplied with two external remote probes. For more information contact our sales office.

Simple setup & easy-to-use software makes the ThermaData Pharm WiFi loggers perfect for fridge/freezer monitoring

Data sent via Wi-Fi to router   View data on multiple devices   Email Alerts
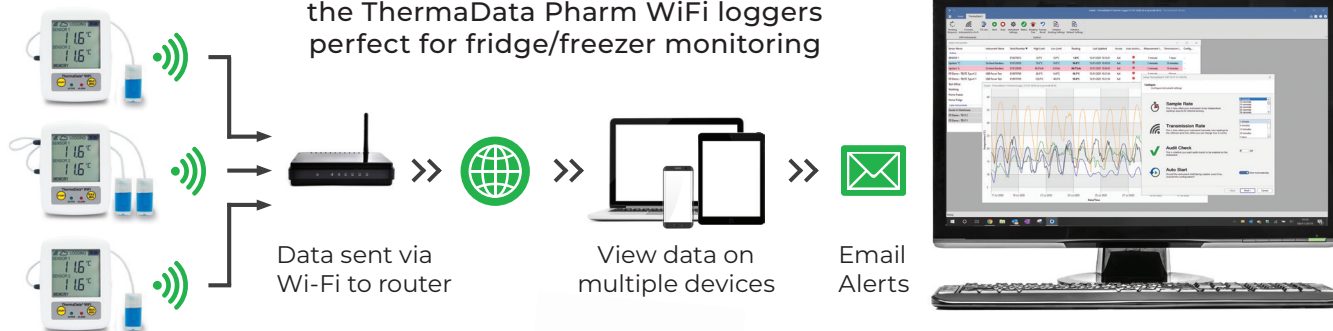
- TD Link available on iOS and Android for mobile phone push notifications

Magnetic mount (830-800)

Order code	Description	£ each
298-011-PHM	Model TD1F c/w Pharm probe	110.00
298-111-PHM	Model TD2F c/w Pharm probes	130.00
830-880	Protective silicone boot - black	14.00
832-590	Replacement ABS wall bracket	4.50
830-800	Magnetic mount	9.00
816-035	Replacement Glycol solution - 50 ml	8.00
Inclusive of thermistor probe(s) & USB lead		

Specification	Model TD1F	Model TD2F
Range - internal	0 to 50 °C	N/A
Range - external	-40 to 70 °C	-40 to 70 °C
Resolution	0.1 °C/°F	
Accuracy	±0.5 °C	
Memory	2 x 9000 readings	
Sample rate	6 seconds to 330 minutes	
Battery & life	2 x 1.5 volt AA - approx. 1 year	
Display	12 mm LCD/2 LED's	
Dimensions	29 x 72.5 x 96 mm	
Weight	165 grams	
FREE traceable certificate of calibration included		

Please note: WiFi routers have a range of 100 metres depending on the make, model, capabilities and setup of the router. Environmental conditions may also affect the signal strength.

WIFI

British Manufacturer

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ETI stand as a proud British exporter and since 2012 have won **four Queen's Awards for Enterprise.**